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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

FIG. 1A

| Designation | Species | Epitope | Western Blot | IHC | FACS | Epitope sequence |
|-------------|---------|---------|--------------|-------|------|----------------------|
| 29C11 | rabbit | Pro2 | Yes | yes** | n.d. | IDELKECFLNQTDETLSNVE |
| 31A5 | rabbit | Pro3 | Yes | yes** | yes | ELLQEFIDDNATTNAIDELK |
| 6A1 | rabbit | Pro2-3 | Yes | n.d. | no | TTNAIDELKECFLNQ |
| 14A12 | rabbit | Pro3 | Yes | n.d. | yes | ELLQEFIDDNATTNAIDELK |
| 6B12 | rabbit | Pro3 | Yes | n.d. | yes | ELLQEFIDDNATTNAIDELK |
| 2D3 | rabbit | Pro5 | Yes | n.d. | yes | SQHCYAGSGCPLENVISKTI |
| 16D8 | rabbit | Pro3 | Yes | n.d. | yes | ELLQEFIDDNATTNAIDELK |
| 31-1H7 | mouse | n.d. | Yes | n.d. | yes | SQHCYAGSGCPLENVISKTI |
| 197-1H11 | mouse | Pro5 | Yes | n.d. | no | |
| 32-1G11 | mouse | n.d. | Yes | n.d. | yes | |
| 304-1A5 | mouse | n.d. | Yes | n.d. | yes | |
| 98-1F4 | mouse | n.d. | Yes | n.d. | no | |

Fig. 1A

pc.h.mam.6a1.cell-57.579.1.f7

CACCATGGAGACAGGCCTGCGCTGGCTTCTCCTGGTCGCTGTGCTCAAAGGTGTCCAGTGTCA
GTCGCTGGAGGAGTCCGGGGTTCGCTGGTAACGCCTGGAGGATCCCTGACACTCACCTGCAC
AGTCTCTGGAATCGACCTCAGTAGCTATGGAGTGGGCTGGTCCGCCAGGCTCCAGGGAAGG
GGCTGGAATACATCGGAATCATTAGTAAATTGATAACATACTACGCGAACTGGGCGAAA
GGCCGATTACCATCTCCAAAACCTCGTCGACCACGGTGGATCTGAAAATGACCAGTCTGACA
ACCGAGGACACGGCCACCTATTTCTGTACCAGAGGGTCTTTTGATCCCTGGGGCCAGGCACC
CTGGTCACCGTCTCCTCAGGGCAACCTAA

pc.h.mam.16d8.cell-22.394.1.f7

CACCATGGAGACAGGCCTGCGCTGGCTTCTCCTGGTCGCTGTGCTCAAAGGTGTCCAGTGTCA
GTCGGTGGAGGAGTCCGGGGTTCGCTGGTCACGCCTGGGACACCCCTGACACTCACCTGCAC
AGTCTCTGGATTCTCCCTCAGCAGCTACGACATGACCTGGGTCCGCCAGGCTCCAGGGAAGGG
GCTGGAATGGATCGGAACCATAGTACTATTGGTAGCCATTTTACGCGAGCTGGGCGAGAGG
CCGATTACCATCTCCAAAACCTCGACCACGGTGGATCTGAAAATCACCATCCGACAACCGA
GGACACGGCCACGTATTTTTCGGGCAGATTTCGGATTGCTGGTGA TGGTGCCTTCTGGGGCCC
AGGCACGCTGGTCACCGTCTCCTCAGGGCAACCTAA

pc.h.mam.16d8.cell-21.393.2.f7

CACCATGGAGACAGGCCTGCGCTGGCTTCTCCTGGTCGCTGTGCTCAAAGGTGTCCAGTGTCA
GTCGGTGGAGGAGTCCGGGGTTCGCTGGTCACGCCTAGGACACCCCTGACACTCACCTGCAC
AGTCTCTGGATTCTCCCTCAGCAGCTACGACATGACCTGGGTCCGCCAGGCTCCAGGGAAGGG
GCTGGAATGGATCGGAACCATAGTACTATTGGTAGCCATTTTACGCGACCTGGGCGAGAGG
CCGATTACCATCTCCAAAACCTCGACCACGGTGGATCTGAAAATCACCATCCGACAACCGA
GGACACGGCCACGTATTTTTCGGGCAGATTTCGGATTGCTGGTGTGGTGCCTTCTGGGGCCC
AGGCACGCTGGTCACCGTCTCCTCAGGGCAACCTAA

pc.h.mam.6b12.cell-19.339.4.f7

CACCATGGAGACAGGCCTGCGCTGGCTTCTCCTGGTCGCTGTGCTCAAAGGTGTCCGGTGTCA
GTCGGTGGAGGAGTCCGGGGTTCGCTGGTCACGCCTGGGACACCCCTGAGATTACCTGCAC
AGTCTCTGGAATCGACCTCAGCACCTACGACATGACCTGGGTCCGCCAGGCTCCAGGGAAGG
GACTGGAATGGATCGGAACCATAGTACTTTGGTACCCCTTTTCCGCCAATTGGGCGAGAG
GCCGATTACCATCTCCAGACCTCGACCACGGTGGATCTGAAAATCGCCAGTCCGACGACCG
AAGACACTGCCACATATTTTGTGGCAGATTTCGGATTGCTCATGATGGTGCCTTCTGGGGCC
CAGGCACGCTGGTCACCGTCTCCTCAGGGCAACCTAA

Fig. 1B

| | | |
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| APPROVED | O.G. FIG. | |
| | CLASS | SUBCLASS |
| BY | DRAFTSMAN | |

FIG. 1B

pc.h.mam.2d3.cell-65.576.1.t7

CCCATGGAGACAGGCTGCGCTGGCTTCTCCTGGTCGCTGTGCTCAAAGGTGTCCAGTGTGAG
 GAGCAGCTGAAGGAGTCCGGAGGAGGCTGGTCACGCTGGGACACCCCTGACACTCACCTG
 CACAGTGTCTGGAATCGACCTCAATATCGATGCAATGAGCTGGGTCCGCCAGGCTCCAGGGA
 AGGGGCTGGAATGGATCGGAATTATTGGTACTCGTGGTGGCACATGGTTCGCGAGCTGGGCG
 AAAGGCCGATTACCATCTCCAAACCCGACCACAGTGGATCTGAAAATCCCAGTCCGAC
 AACCGAGGACACGGCCACCTATTTCTGTGCCAGTATCTATTCTGATAGTGGTACTTATACGAC
 CTTGTGGGGCCAGGCACCCCGGTACCGTCTCCTCAGGGCAACCTAA

pc.h.mam.14a12.cell-3.333.1.t7

CACCATGGAGACAGGCTGCGCTGGCTTCTCCTGGTCGCTGTGCTCAAAGGTGTCCAGTGTCA
 GTCGGTGGAGGAGTCCGGGGGTGCTGGTCACGCTGGGACACCCCTGACACTCACCTGCAC
 CGTCTCTGGATTCTCCCTCAGCAGCGTCGACATGACCTGGGTCCGCCAGGCTCCAGGGAAGGG
 GCTGGAATGGATCGGAACCATAGTACTCGTAGTACACATACTACGCGAGCTGGGCGAAAG
 GCCGATTACCATCTCCAAACCTCGACCACGGTGGATCTGAAAATCACCAGTCCGACAACCG
 AGGACACGGCCACGATTTCTGTGGCAGATTCGGATTGCTGGTGATGGTGCCTTCTGGGGCC
 CAGGCACGCTGGTCACCGTCTCCTCAGGGCAACCTAA

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GGAAGGCTGCGCTGGCTTTTCTGGTCGCTGTGCTCAGAGGTGTCCAGTGTGAGTCCGCTGGAG
 GAGTCCGGGGGTNGCCTGGTAACGCTGGGACACCCCTGANANTCACCTGCACAGCCTTTGG
 ATTTTCCCTCAGTAGCTGGTCAATGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAATG
 GATCGGAATGATTGGTATTGTTGGTAGTGGCACATAATANGCGACCTGGGCGAAAGGCCGAT
 TCACCATTTCCAAACCTTGTGACCACGGTCGATTTGAAAATGACCAGTTTGACAACCGAGGA
 CACGGCCACCTATTTTGTGTGACAGGGGGTAGTTTTANTTTTGTACCGCCTTGTGGGGCCCA
 GGCACCCCTGGTCACCGTNTCCTCAGGGCAACCTAA

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TTGCAGGCTGCGTGGTTTTCTGGTCGCTGTGCTCAAAGGTGTCCAGTGTGAGTCCGCTGGAGG
 AGTCCGGGGGTNGCCTGGTAACNCTGGGACACCCCTGACANTTTTTTGCAAAGTNTTTGGAT
 TTTCCCTCAGCAGNTACGANATGACCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAATGG
 ATNGGAACCATAGTANTTGTGTAATGGATAATACGCGACCTGGGCGAAAGGCCGATTAC
 CATTTCAAAACCTTGACCACGTGGATTTGAAAATCACCAGTCCGACAACCGAGGACACGG
 CCAAGTATTTTGTGGCAGATTCGGATTGCTGGTGATGGTGTCTTTGGGGCCCGGGCACGCT
 GGTACCGTNTCCTCAGGGCAACCTAA

Fig. 1C

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| APPROVED | BY | DRAFTSMAN |
| O.G. FIG. | | CLASS |
| | | SUBCLASS |

FIG. 1C-1

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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

FIG. 2

Pro-1 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-2 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-3 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-4 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-5 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-7 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-8 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-9 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

GIob-2 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

Pro-20 MKLLMWLMLAALSOHCYAGSGCPLLENNISKTIINPQVSKTEYKELLQEFIDDNATTNAIDELKECFNQTDETLSNVEVFMQLIYDSSLCOLF

N-terminal recombinant GSGMKETAARKFERQHMDSPDLGTDGDDKAWAISDPNS.....HCYAGSGCPLLENNISK
Peptide with Enterokinase and Thrombin cleavage sites Mammaglobin sequence

Fig. 2

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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN: | | |

TABLE 2-continued

| Reactivity of Mouse Monoclonal antibodies to Mammaglobin with peptides and recombinants | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|--------|-----------------------------|
| Antibody | Pro-2 | Pro-3 | Pro-4 | Pro-5 | Pro-6 | Pro-7 | Pro-8 | Glob-2 | Mamma-Trx N-term recomb TRX |
| 31-1H7 | 0.065 | 0.059 | 0.059 | 0.061 | 0.06 | 0.066 | 0.07 | 0.063 | 2.788 0.074 0.116 |
| 32-1G11 | 0.056 | 0.055 | 0.054 | 0.054 | 0.055 | 0.057 | 0.055 | 0.055 | 2.75 0.057 0.07 |
| 197-1H11 | 0.055 | 0.054 | 0.053 | 1.139 | 0.054 | 0.055 | 0.055 | 0.055 | 2.502 2.596 0.064 |
| 304-1A5 | 0.054 | 0.054 | 0.053 | 0.053 | 0.054 | 0.053 | 0.053 | 0.054 | 2.7 0.056 0.064 |
| 98-1F4 | 0.068 | 0.055 | 0.053 | 0.055 | 0.059 | 0.064 | 0.11 | 0.112 | 2.819 0.118 0.121 |
| 967 | 0.055 | 0.057 | 0.056 | 0.056 | 0.055 | 0.62 | 0.056 | 0.637 | 1.566 0.069 0.159 |
| Blank | 0.056 | 0.055 | 0.053 | 0.055 | 0.052 | 0.053 | 0.053 | 0.053 | 0.056 0.052 0.06 |

Fig. 3A

| | |
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| APPROVED: O.G. FIG. | |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

TOP SECRET

Mammaglobin rabbit monoclonal 6B12

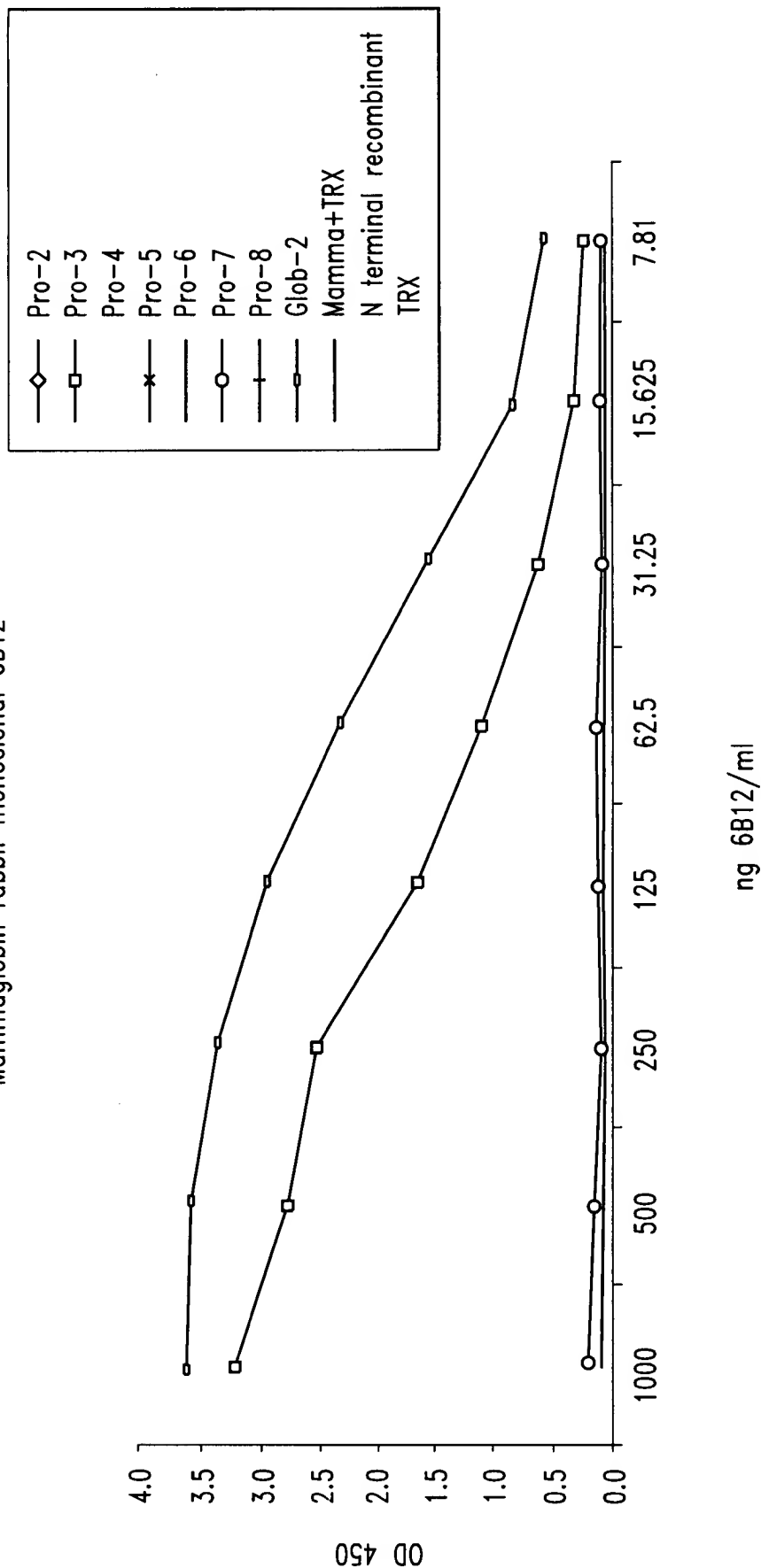


Fig. 3B

| | | |
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| APPROVED | D.C. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

TOP SECRET

Mammaglobin rabbit monoclonal 29C11

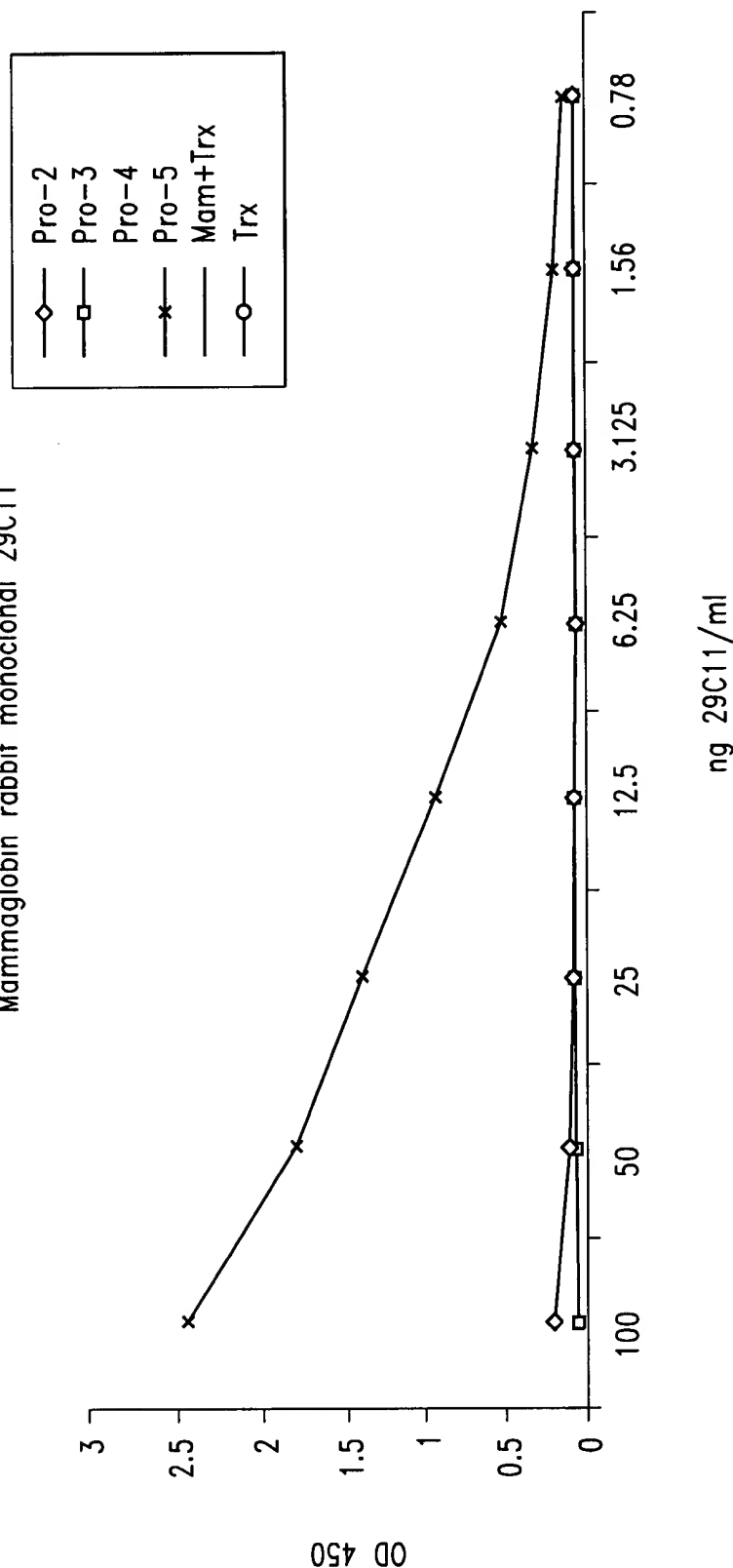


Fig. 3C

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| APPROVED | 0.0.FIG. | |
| BY | CLASS | SUBCLASS |
| CRAFTSMAN | | |

TOP SECRET

Mammaglobin rabbit monoclonal 2D3

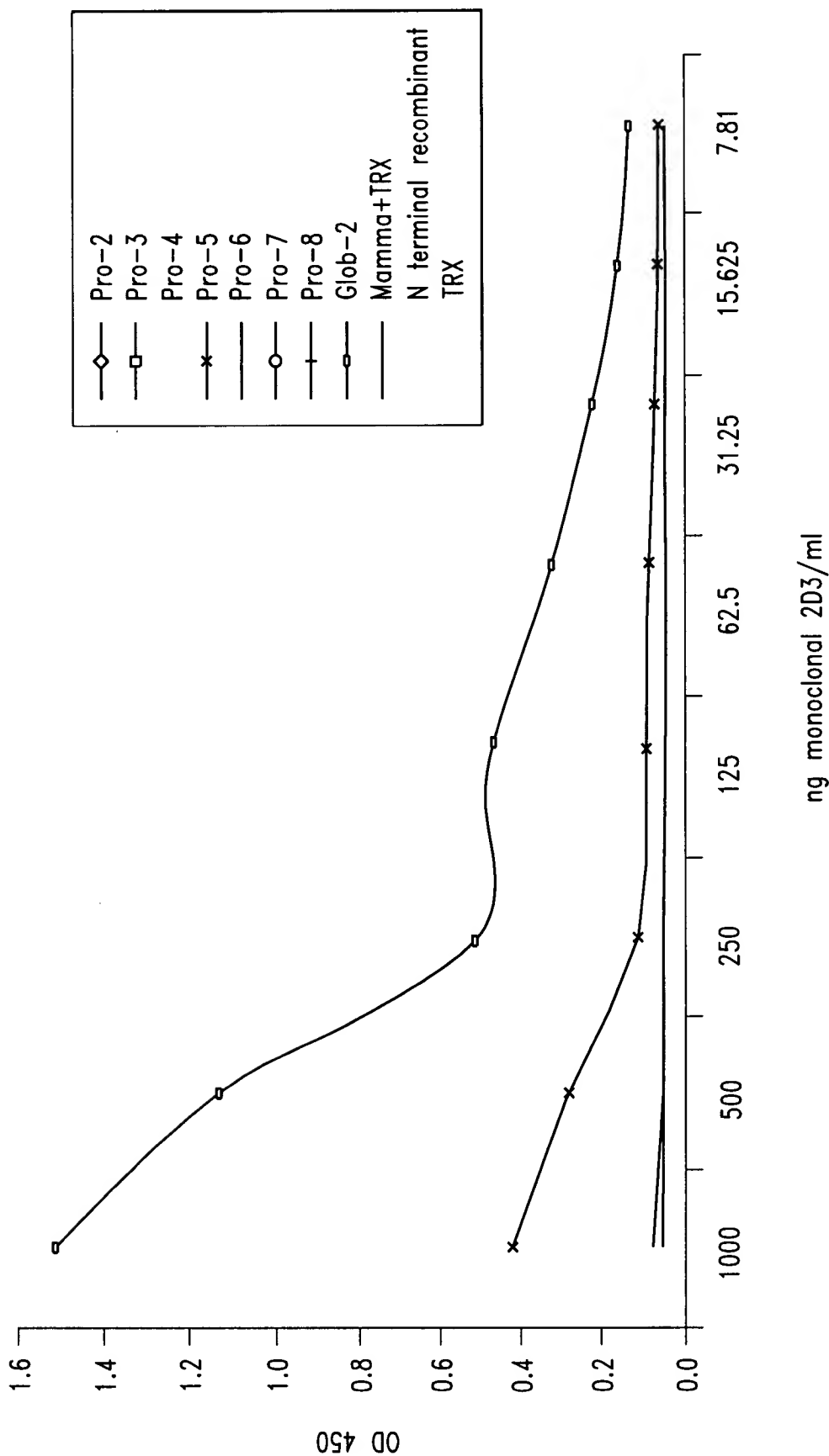


Fig. 3D

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| APPROVED | O.G. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

Staining of permeabilized human breast tumor cell line MDA-MB415
 with rabbit anti-mammaglobin monoclonal antibodies

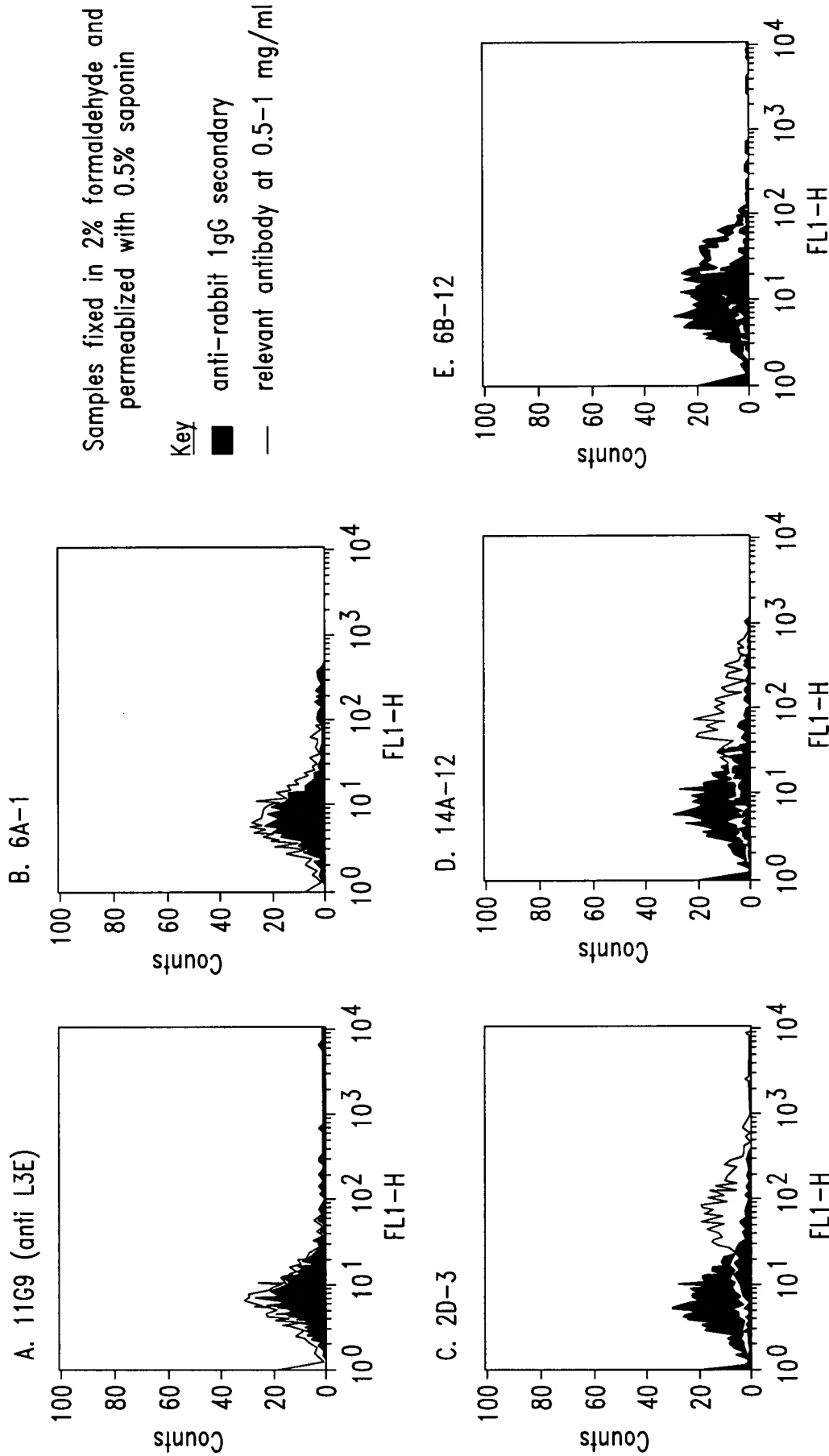


Fig. 4A

Staining of permeabilized human breast tumor cell lines
 with murine anti-mammaglobin monoclonal antibodies

Key

- Secondary alone
- Primary at 1:10

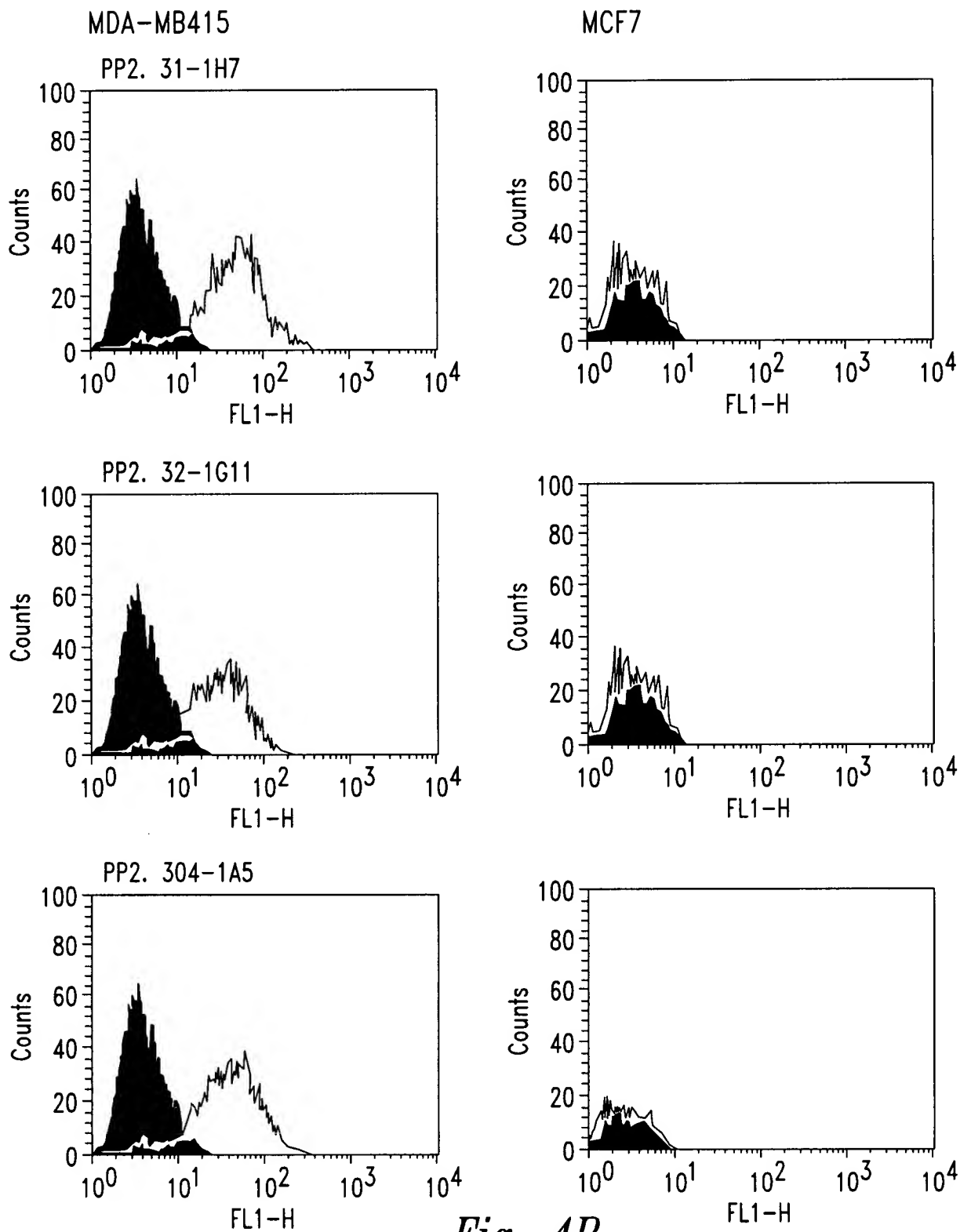


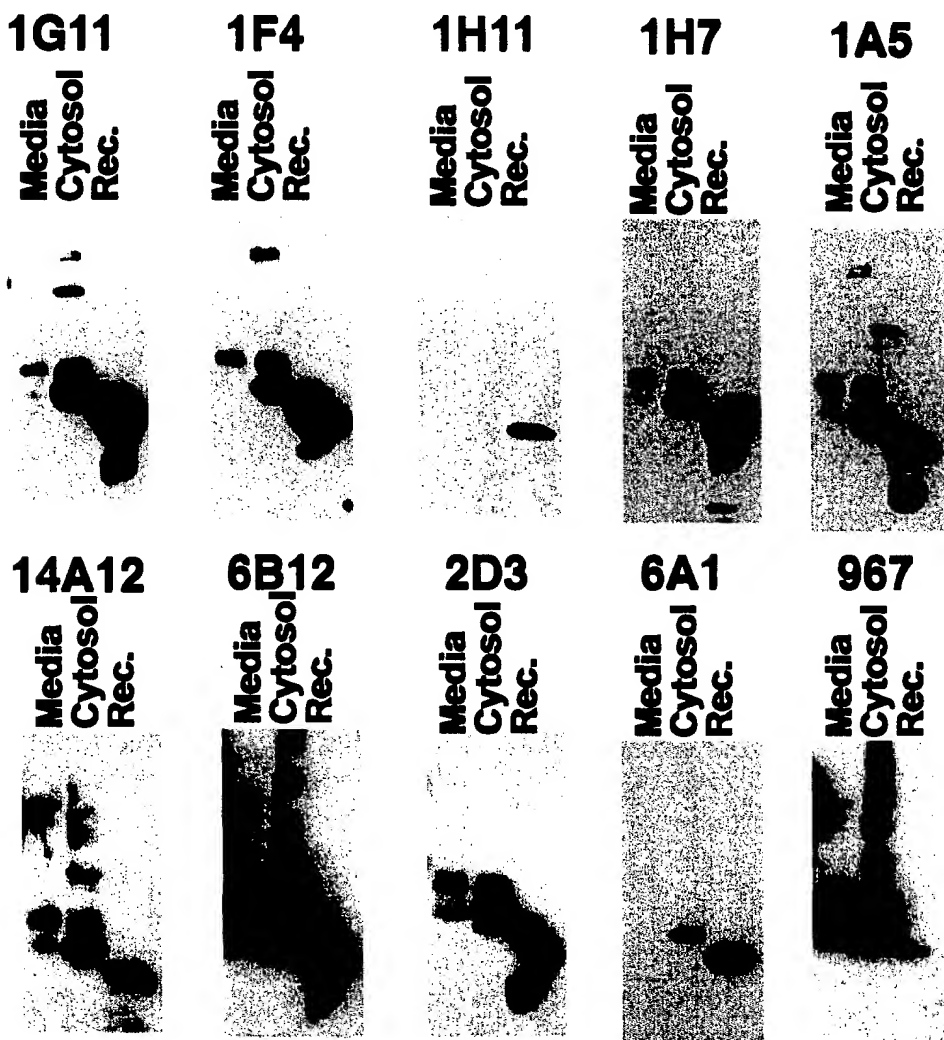
Fig. 4B

APPROVED O.G. FIG.
 BY CLASS SUBCLASS
 DRAFTSMAN

101280-245260

Western blot analysis of Mammaglobin from MB415 cells

| | |
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| APPROVED | D.G. FIG. |
| BY | CLASS/SUBCLASS |
| DRAFTSMAN | |



Mouse monoclonal: 1G11, 1F4, 1H11, 1H7, 1A5
 Rabbit monoclonal: 14A12, 6B12, 2D3, 6A1
 Rabbit polyclonal: 967

Rec.: bacterially expressed recombinant mammaglobin

Fig. 5

IHC analysis of mammaglobin expression in normal tissue.

| Normal Tissue | Mam-29C11/31A5 |
|-----------------|----------------|
| Breast | 3- |
| Adrenal | 0 |
| Cervix | 0 |
| Colon | 0 |
| Duodenum | 0 |
| Gall bladder | 0 |
| Ileum | 0 |
| Kidney | 0 |
| Ovary | 0 |
| Pancreas | 0 |
| Paroud gland | 0 |
| Prostate | 0 |
| Skeletal muscle | 0 |
| Spleen | 0 |
| Testis | 0 |

Fig. 6

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| APPROVED | O.G. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

FIG. 6

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| APPROVED | O.G. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

FIG. 7A

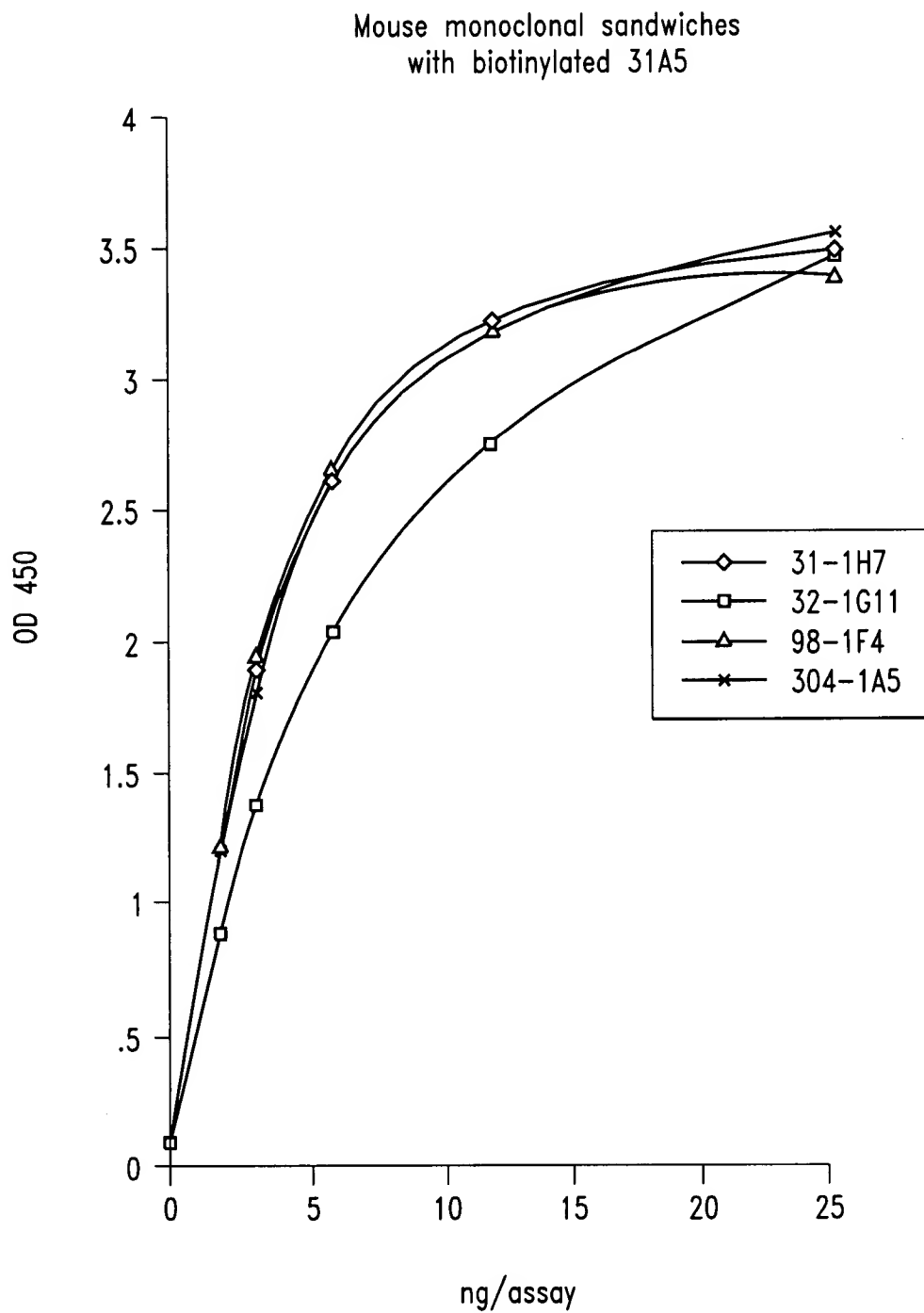


Fig. 7A

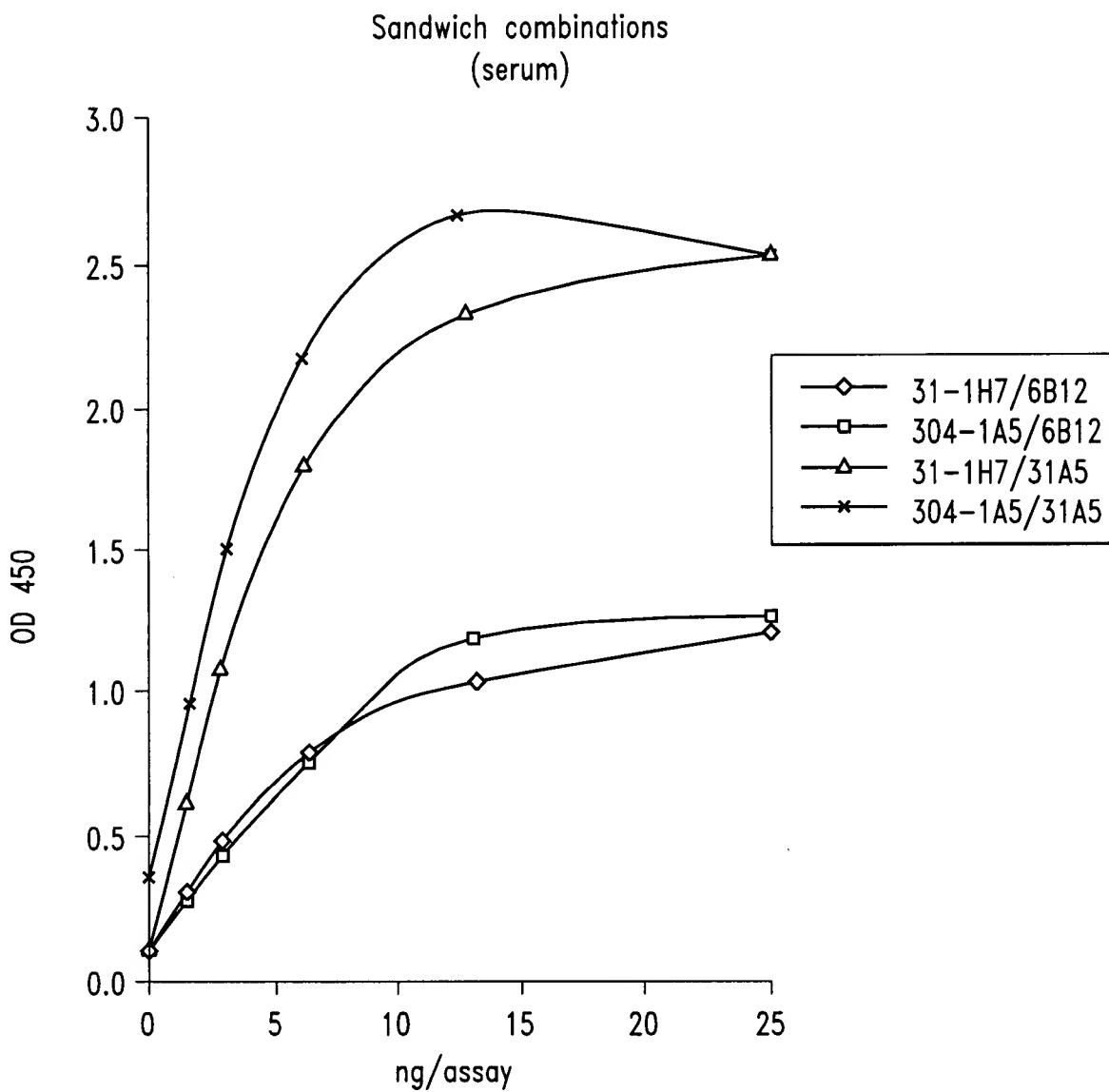


Fig. 7B

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| APPROVED | D.G. FIG. |
| BY | CLASS SUBCLASS |
| DRAFTSMAN | |

FIG. 7C

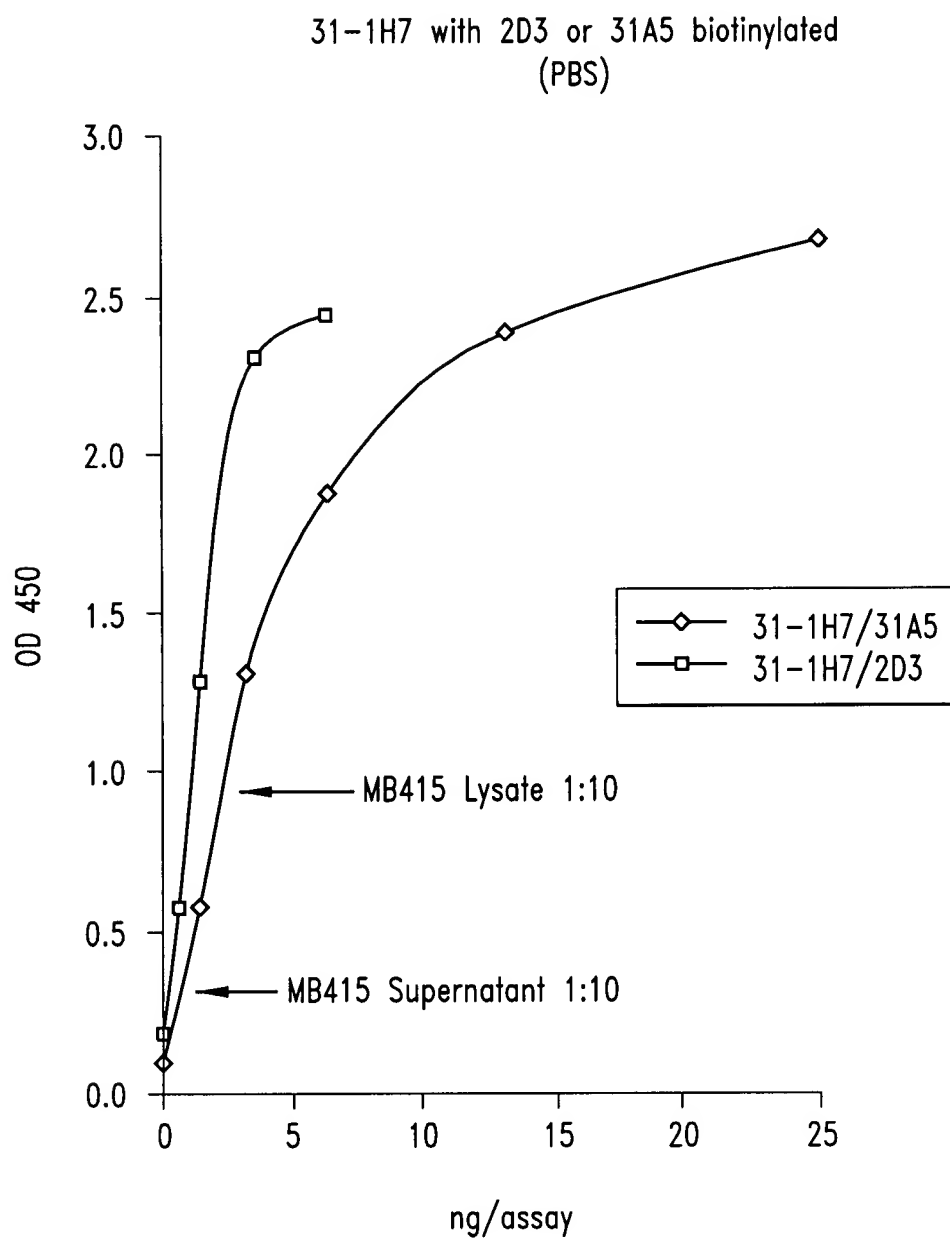


Fig. 7C

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| APPROVED | O.G. FIG. | |
| | CLASS | SUBCLASS |
| BY | | |
| DRAFTSMAN | | |

FIG. 8

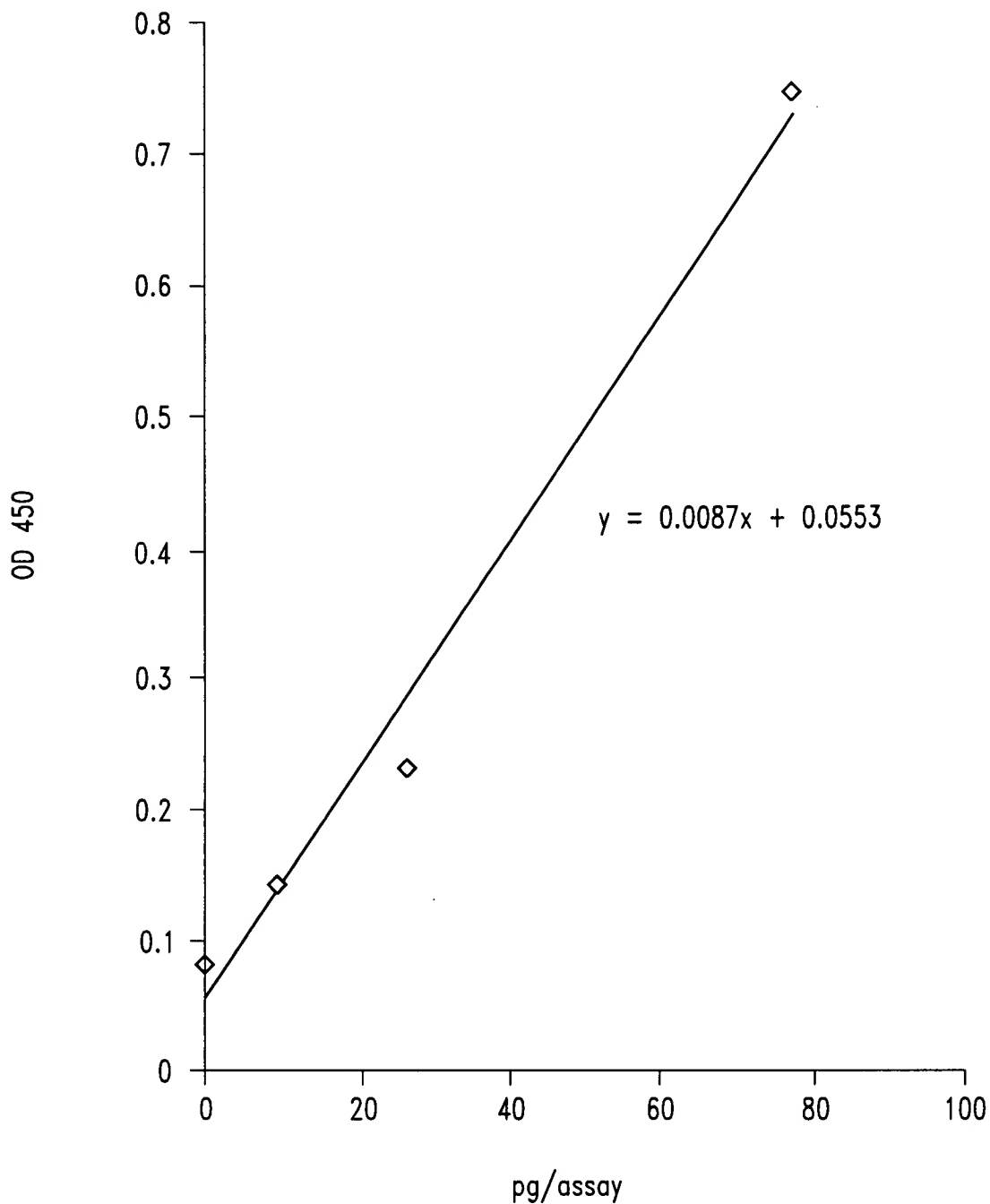


Fig. 8

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| APPROVED | O.G. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

Detection of mammaglobin in sera

| Serum # | Status | Western | Sandwich ELISA | | Mamaglobin [pg/ml]** | MRNA in blood* |
|--------------|----------|---------|---|------|----------------------|----------------|
| | | | Sandwich ELISA 2D3 mAb capture, 29C11 secondary | OD | | |
| 6 (aka 3534) | BrCA | + | 4980-9600 | 3.8 | 8732 | not tested |
| 3 | BrCA | nd | 560-1245 | 2.6 | 2392 | + |
| 4 | BrCA | nd | 311-622 | 1.7 | 1443 | + |
| 12 | BrCA | nd | 311-622 | 1.5 | 2298 | weakly + |
| 17 | BrCA | nd | 149-311 | 0.6 | 1498 | + |
| 11 | BrCA | nd | 149-311 | 0.6 | 847 | + |
| 10 | BrCA | nd | 74-149 | 0.38 | 356 | nd |
| 1 | Normal F | nd | 38-74 | 0.21 | 2333 | not tested |
| 18 | Normal M | nd | 38-74 | 0.2 | 636 | not tested |
| 8 | BrCA | nd | 38-74 | 0.19 | 284 | nd |
| 9 | Normal F | nd | 38-74 | 0.18 | 188 | not tested |
| 5 | Normal F | nd | <33 | 0.16 | 43 | not tested |
| 2 | Normal F | nd | <33 | 0.14 | 149 | not tested |
| 7 | Normal F | nd | <33 | 0.13 | 96 | not tested |
| 14 | Normal F | nd | <17 | 0.05 | 18 | not tested |
| 16 | Normal F | nd | <17 | 0.01 | 363 | not tested |
| 13 | Normal F | nd | <17 | 0.01 | 443 | not tested |
| 15 | Normal F | nd | xxx | xxx | 10.8 | not tested |

Fig. 9

1a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

2a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

3a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

4a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

5a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

6a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

7a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

8a MKLLMVLMLAALSQHCYAGSGCPLENNISK^TINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTD^ETL^SSNVEVFMQLIYDSSLCDLF

| peptide # | AA sequence | AA location within mmgb |
|-----------|--|-------------------------|
| 1a | MKLLMVLMLAALSQHCYAGS | 1-20 |
| 2a | ALSQHCYAGSGCPLENNIS | 11-30 |
| 3a | GCPLLENNISK ^T INPQVSKT | 21-40 |
| 4a | KTINPQVSKTEYKELLQEFI | 31-50 |
| 5a | EYKELLQEFIDDNATTNAID | 41-60 |
| 6a | DDNATTNAIDELKECFLNQT | 51-70 |
| 7a | ELKECFLNQD ^E TL ^S SNVEVF | 61-80 |
| 8a | DET ^S SNVEVFMQLIYDSSLCDLF | 71-93 |

Fig. 10

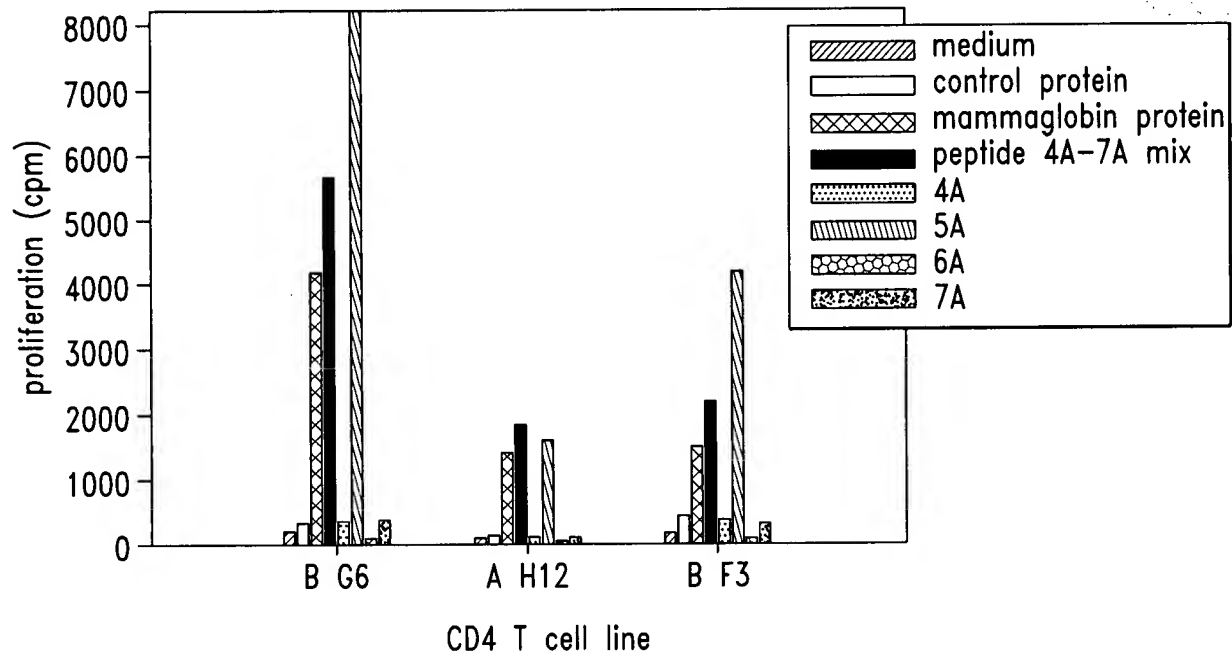


Fig. 11A

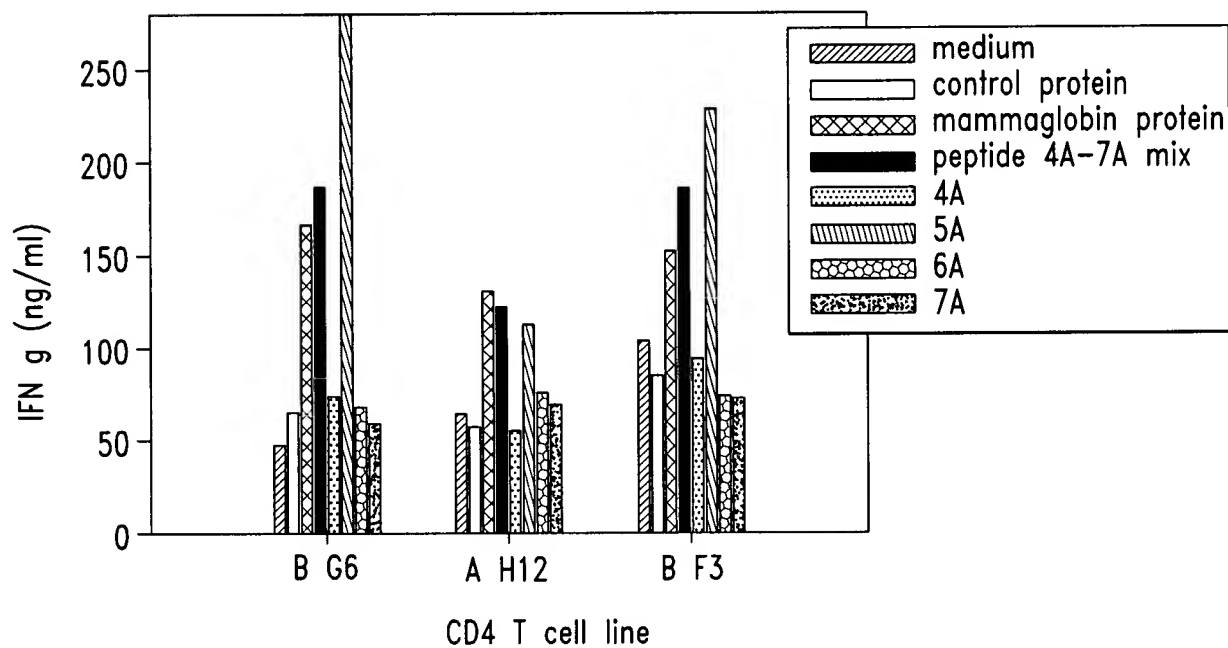


Fig. 11B

| | | |
|----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| | CLASS | SUBCLASS |
| BY | DRAFTSMAN | |

MKLLMVLMLAALSQHCYAGSGCPLENVISKTNPQVSKTEYKELLQEFDNATTNAIDELKECFLNQTDETLSNVEVFMQLIYDSSLCDLF

| # | Start positon | sequence (length) | score |
|----|---------------|-------------------|-------|
| 1 | 2 | KLLMVLMLA (9) | 148 |
| 2 | 3 | LLMVLMLAA (9) | 72 |
| 3 | 4 | LMVLMLAAL (9) | 60 |
| 4 | 66 | FLNQTDETL (9) | 48 |
| 6 | 83 | LIYDsSLCDL (10) | 151 |
| 7 | 2 | KLLMVLMLAA (10) | 148 |
| 8 | 80 | FMQLiYDSSL (10) | 71 |
| 9 | 58 | AIDETKECFL (10) | 26 |
| 10 | 45 | LLQEfIDDNA (10) | 17 |

Fig. 12

| | | |
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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

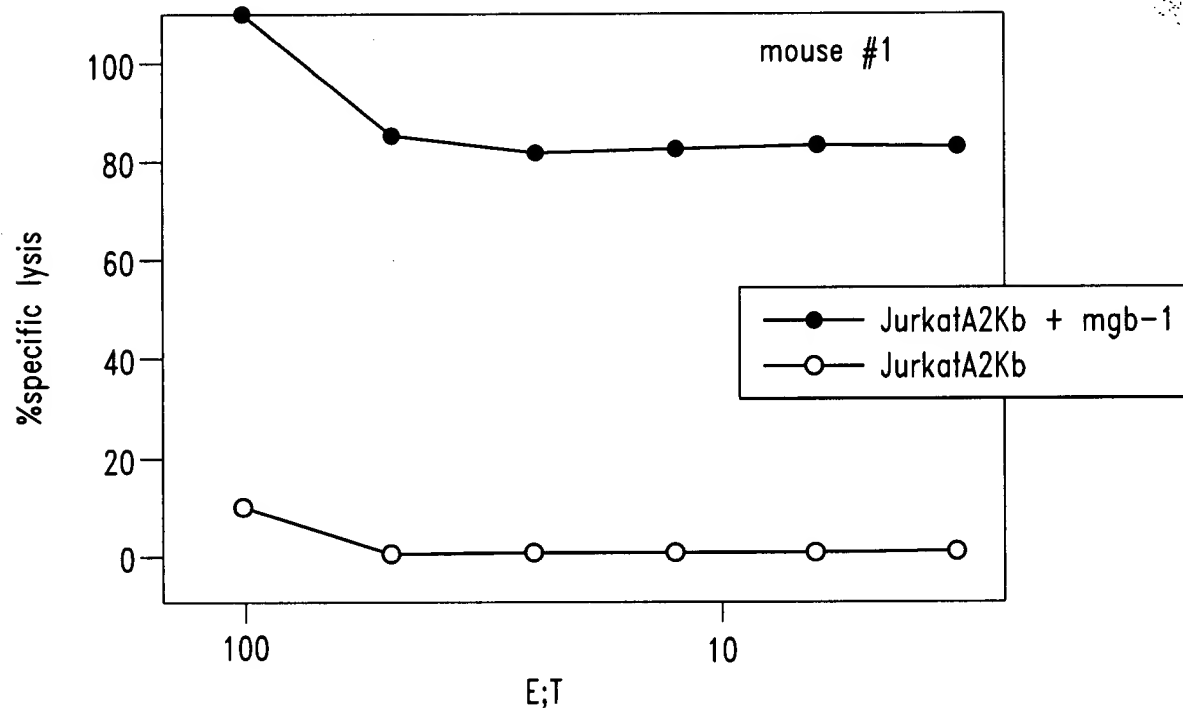


Fig. 13A

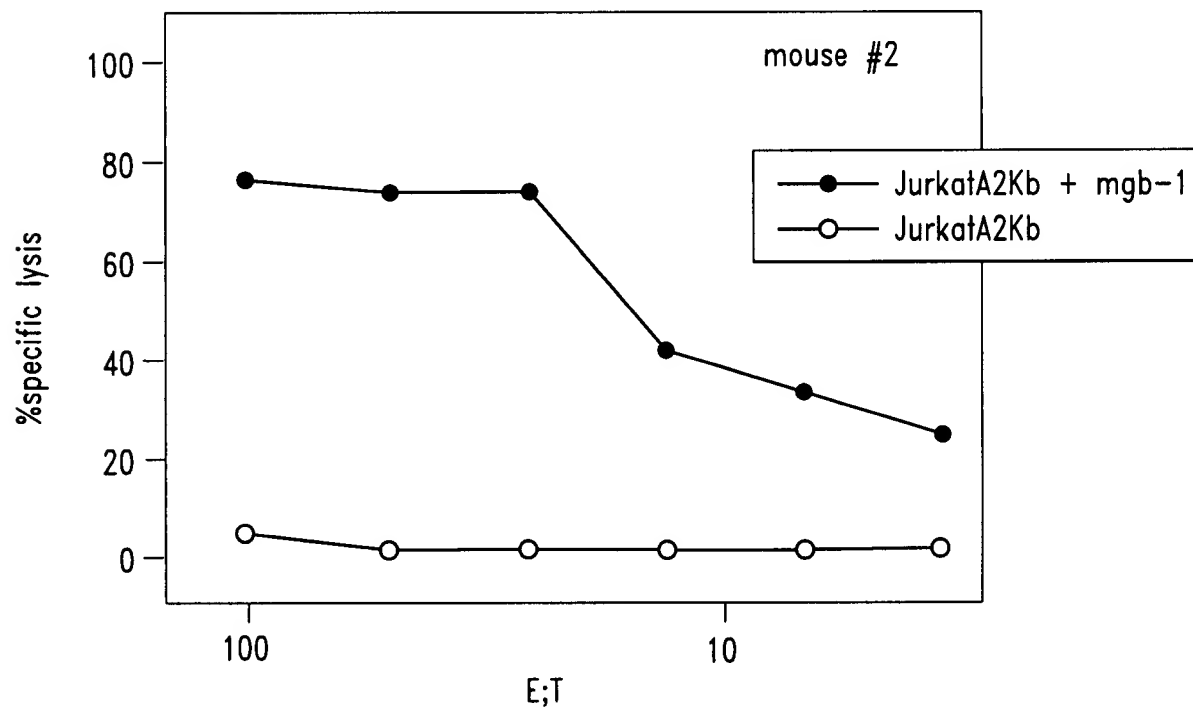


Fig. 13B

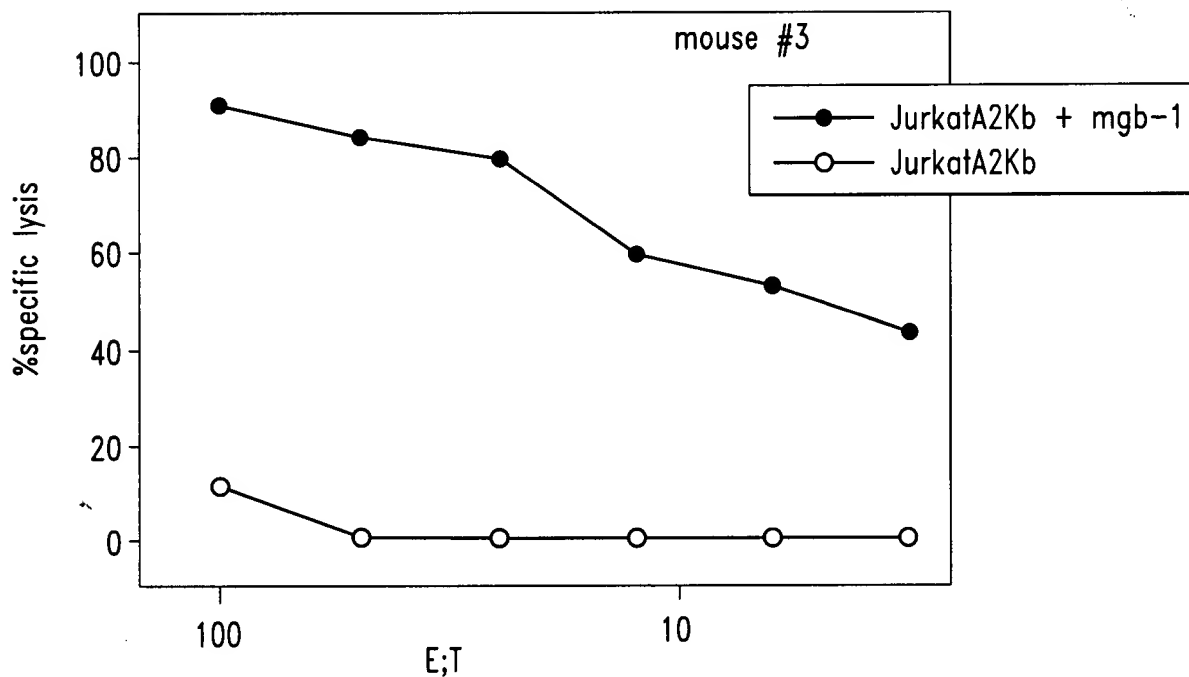


Fig. 13C

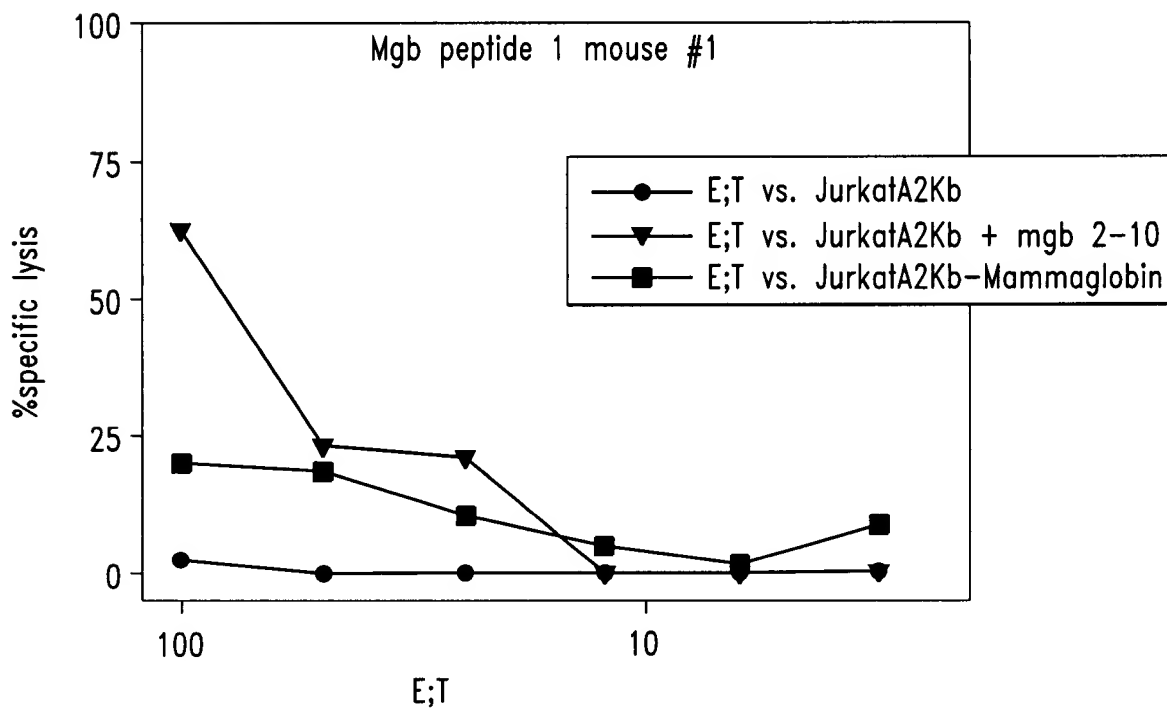


Fig. 14A

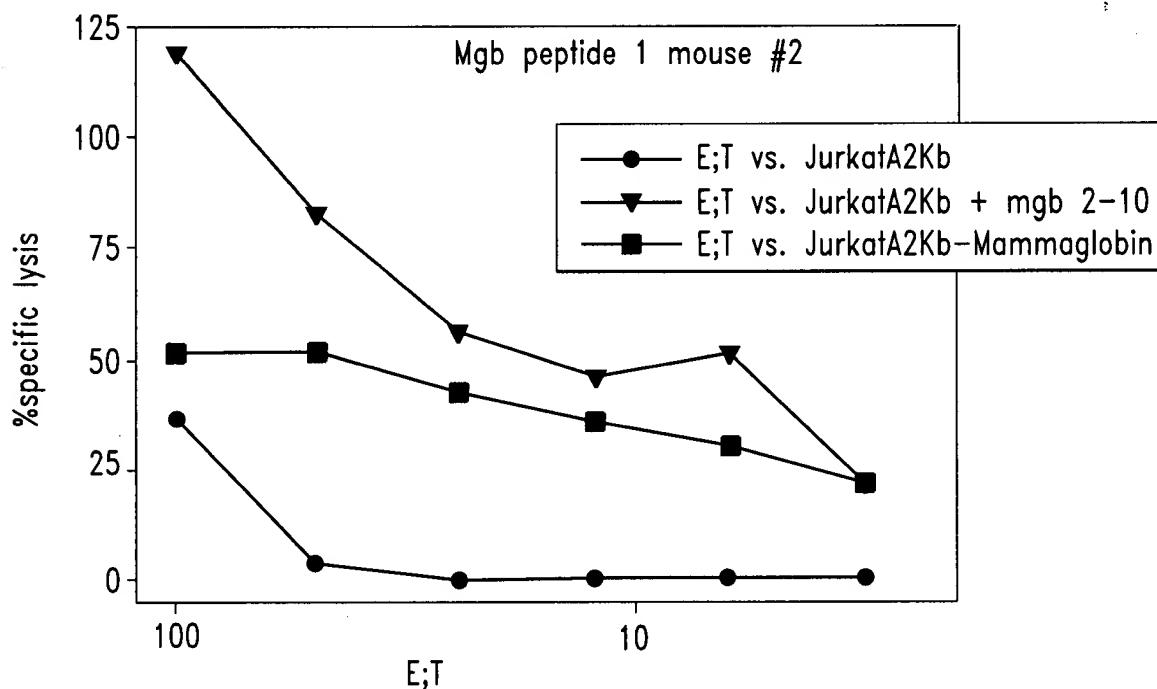


Fig. 14B

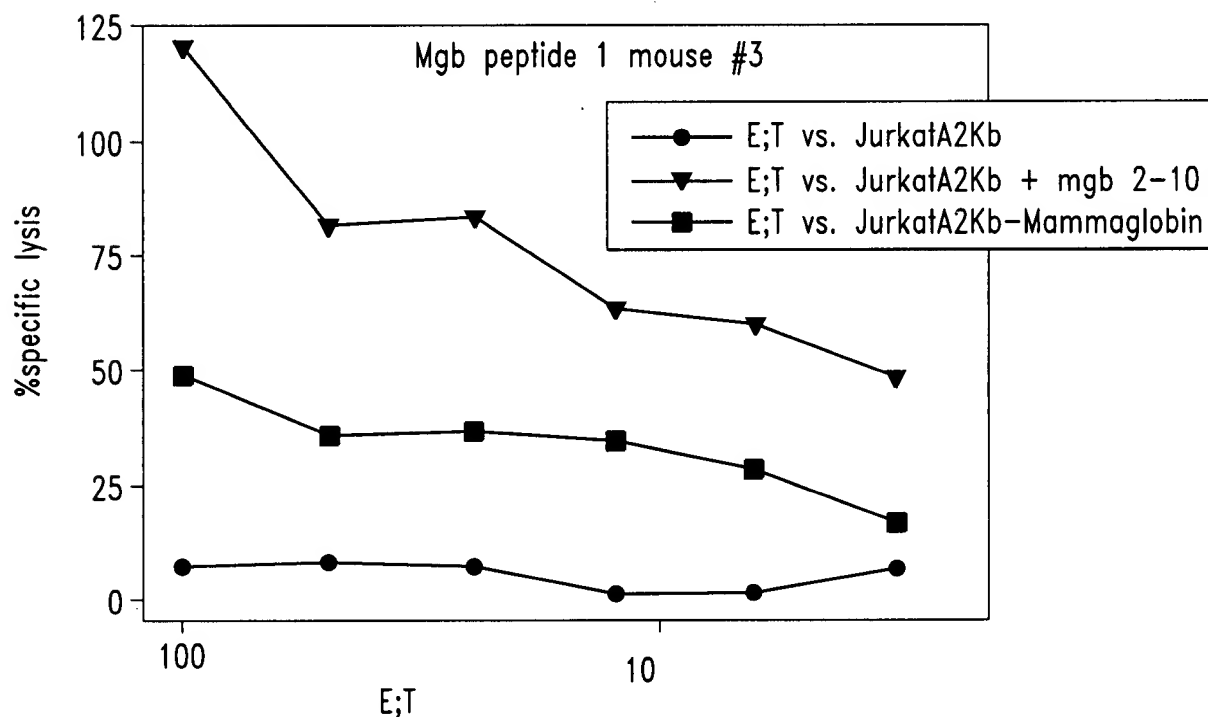


Fig. 14C

| | | |
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| APPROVED | D.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

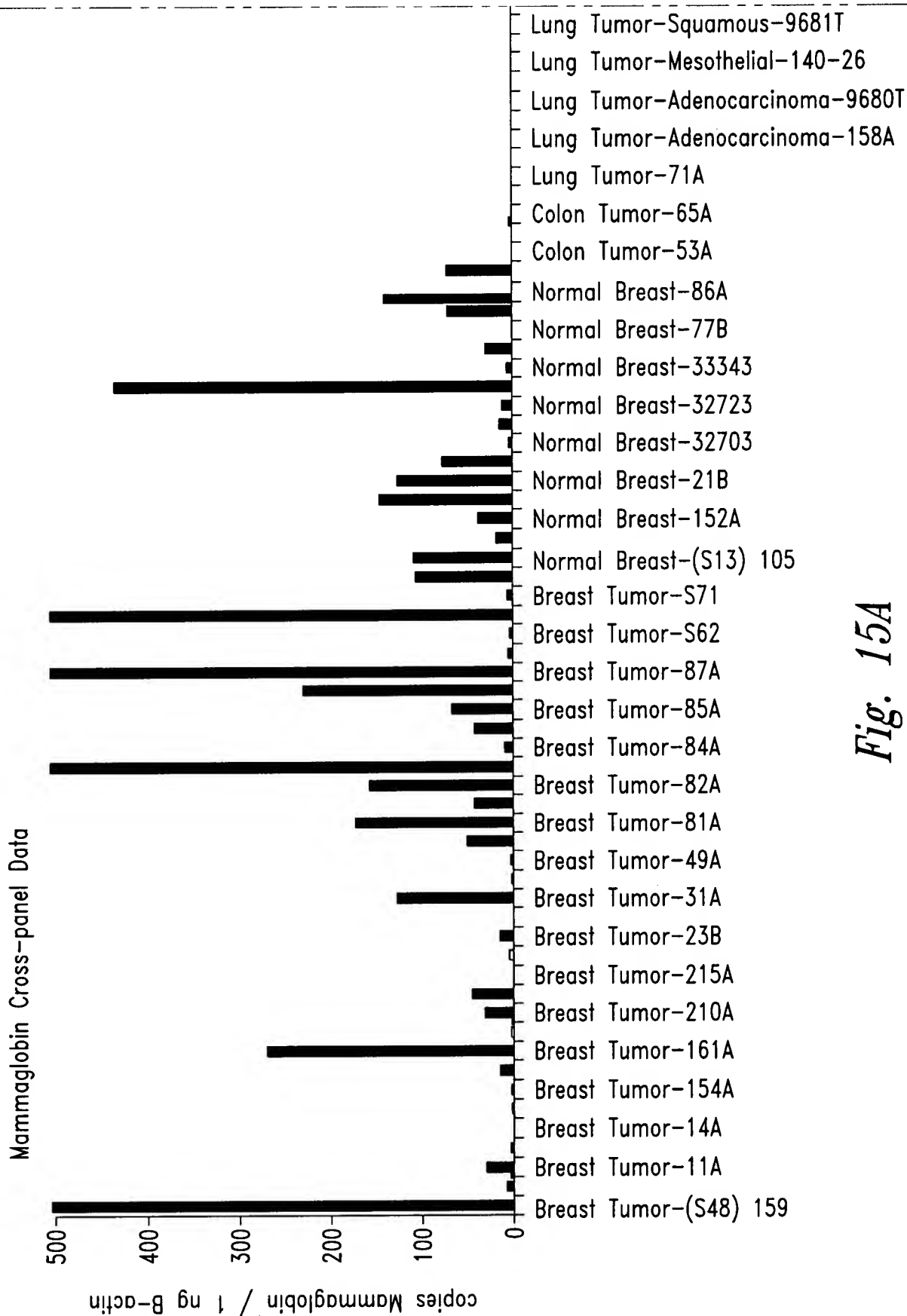


Fig. 15A

| | |
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| APPROVED | D.G. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

FIG. 15B

Normal Testes-4C
Normal Stomach-73A
Normal Stomach-137A
Normal Stomach-137A
Normal Small Intestine-66B
Normal Skin-138A
Normal Skin-60A
Normal Skeletal Muscel-128A
Normal Retina-32263
Normal Ovary-93B
Normal Lung-Clontech
Normal Lung-58A
Normal Lung-51C
Normal Liver-56A
Normal Liver-136A
Normal Kidney-69A
Normal Kidney-119A
Normal Esophagus-1375
Normal Colon-50B
Normal Brain-Clontech
Normal Brain-75A
Normal Bone Marrow-74A
Normal Bladder-S9-1
Normal Aorta-1375
Normal Prostate-131A
Normal Prostate-48B
Normal Prostate-45A
Normal Prostate-34C
Normal Prostate-117A
Prostate Tumor-40A
Prostate Tumor-35A
Prostate Tumor-135A
Prostate Tumor-115A
Ovary Tumor-120A
Lung Tumor-Squamous-96A

Fig. 15B

| | |
|-----------|-----------|
| APPROVED | O.G. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

FILED 2/12/00

MB415 cells versus copy number for
Mammaglobin

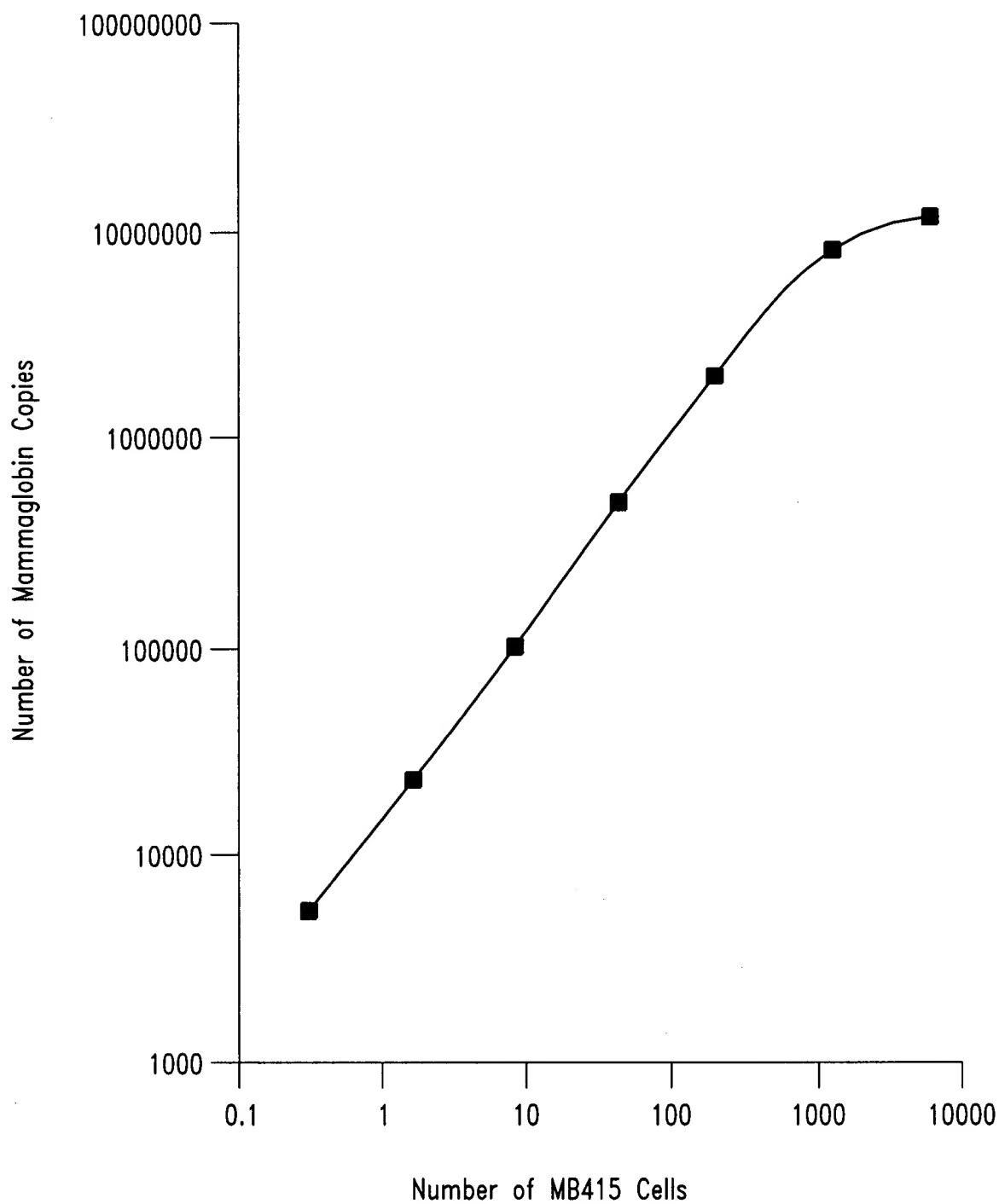


Fig. 16

| | | |
|---------------------|-------|----------|
| APPROVED: O.G. FIG. | | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

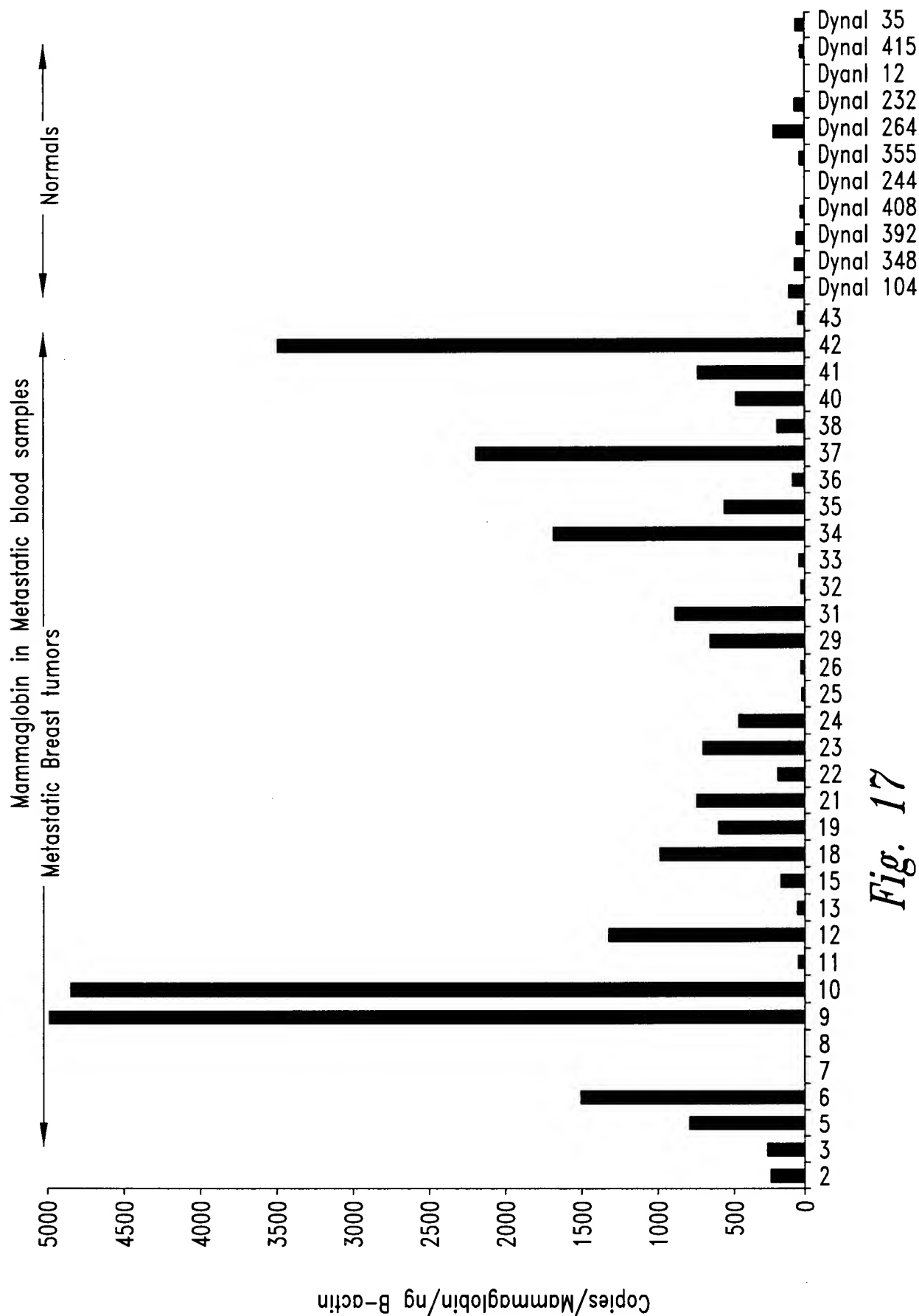


Fig. 17

| | | |
|-----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

FORBIDDEN

D117 mgb CD4 proliferation - large assay #2
 June 2, 2000

| line # | name | priming pep | media | DMSO | 1A-7A | 3A | 5A | 7A | mgb B 5A |
|--------|--------|----------------|-------|------|-------|-------|-------|-------|----------|
| 1 | AB:C9 | 5A | 551 | 549 | 5478 | 454 | 12599 | 329 | 886 |
| 2 | AB:C11 | 5A | 155 | 84 | 13737 | 159 | 17260 | 137 | 596 |
| 3 | AB:E7 | 5A | 582 | 551 | 7815 | 198 | 12876 | 465 | 1264 |
| 4 | AB:H12 | 5A | 1309 | 1725 | 18113 | 965 | 5850 | 1264 | 295 |
| 5 | AB:A7 | 1A-7A | 588 | 683 | 15648 | 4500 | 112 | 22045 | 417 |
| 6 | AB:A9 | 1A-7A | 478 | 376 | 6939 | 396 | 426 | 4095 | 135 |
| 7 | AB:B8 | 1A-7A | 1802 | 1602 | 29047 | 9277 | 2628 | 5836 | 1177 |
| 8 | AB:C9 | 1A-7A | 2142 | 2258 | 16814 | 3156 | 2836 | 11635 | 2954 |
| 9 | AB:G7 | 1A-7A | 1553 | 992 | 7754 | 2004 | 3355 | 3829 | 492 |
| 10 | AB:G9 | 1A-7A | 1607 | 1577 | 7563 | 1489 | 3487 | 1752 | 689 |
| 11 | AB:H12 | 1A-7A | 3101 | 2523 | 23408 | 24070 | 2964 | 8379 | 2353 |
| 12 | AB:H4 | 1A-7A | 878 | 691 | 16769 | 674 | 3658 | 11797 | 478 |
| 13 | CD:A4 | 1A-7A | 124 | 520 | 20866 | 21542 | 605 | 3049 | 167 |
| 14 | CD:A5 | 1A-7A | 1439 | 328 | 12641 | 22252 | 2925 | 1358 | 563 |
| 15 | CD:C7 | 1A-7A | 76 | 48 | 67 | 86 | 39 | 38 | 40 |
| 16 | AB:G7 | 5A | 173 | 477 | 1073 | 184 | 127 | 499 | 562 |
| 17 | AB:H12 | 5A | 948 | 329 | 2001 | 849 | 1301 | 266 | 380 |
| 18 | AB:C10 | 5A | 223 | 181 | 486 | 254 | 341 | 97 | 204 |
| 19 | AB:C11 | 5A | 247 | 164 | 22726 | 146 | 15534 | 181 | 222 |
| 20 | AB:G6 | 5A | 2125 | 2048 | 2408 | 1616 | 985 | 1496 | 1217 |
| 21 | AB:G7 | 5A | 91 | 167 | 1669 | 162 | 2582 | 93 | 70 |
| 22 | AB:H2 | 5A | 411 | 720 | 21053 | 271 | 11029 | 157 | 220 |

Fig. 18A

| | | |
|-----------|------------|----------|
| APPROVED | 10 G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

FIG. 18B

| | | | | | | | | | |
|----|--------|-------|------|------|-------|-------|-------|-------|------|
| 23 | AB:D1 | 5A | 222 | 606 | 204 | 412 | 276 | 125 | 57 |
| 24 | AB:E9 | 5A | 315 | 457 | 390 | 191 | 1195 | 177 | 135 |
| 25 | AB:G6 | 1A-7A | 465 | 295 | 5014 | 70 | 2148 | 48 | 455 |
| 26 | AB:H4 | 1A-7A | 545 | 192 | 14133 | 190 | 891 | 7519 | 105 |
| 27 | AB:D12 | 1A-7A | 1852 | 1522 | 13318 | 6496 | 3131 | 4081 | 946 |
| 28 | AB:D1 | 1A-7A | 1448 | 1614 | 4205 | 1199 | 1186 | 1822 | 430 |
| 29 | AB:H1 | 1A-7A | 5572 | 3865 | 18628 | 14627 | 1817 | 13029 | 1567 |
| 30 | AB:A7 | 1A-7A | 1072 | 525 | 15470 | 2718 | 907 | 12379 | 230 |
| 31 | AB:B12 | 1A-7A | 540 | 797 | 17558 | 703 | 15480 | 659 | 6354 |
| 32 | AB:F7 | 1A-7A | 551 | 455 | 8374 | 7694 | 2462 | 329 | 996 |
| 33 | AB:G7 | 1A-7A | 652 | 710 | 8278 | 1018 | 3753 | 2941 | 624 |
| 34 | CD:C7 | 1A-7A | 109 | 175 | 14322 | 3891 | 10183 | 628 | 76 |
| 35 | CD:D8 | 1A-7A | 824 | 2270 | 10295 | 4280 | 1691 | 1314 | 997 |
| 36 | CD:G4 | 1A-7A | 177 | 72 | 29912 | 97 | 24392 | 103 | 54 |
| 37 | CD:G5 | 1A-7A | 230 | 152 | 16874 | 161 | 6497 | 45 | 103 |
| 38 | CD:G3 | 1A-7A | 146 | 178 | 26356 | 138 | 22005 | 90 | 96 |
| 39 | CD:G6 | 1A-7A | 129 | 84 | 12775 | 115 | 2504 | 91 | 80 |
| 40 | CD:C9 | 1A-7A | 2293 | 2507 | 8808 | 3372 | 2634 | 3247 | 2610 |
| 41 | CD:H10 | 1A-7A | 430 | 290 | 29772 | 306 | 23992 | 438 | 424 |
| 42 | CD:H11 | 1A-7A | 542 | 227 | 24760 | 324 | 17835 | 128 | 131 |

Fig. 18B

| | | |
|-----------|----------------|--|
| APPROVED | O.G. FIG. | |
| BY | CLASS/SUBCLASS | |
| DRAFTSMAN | | |

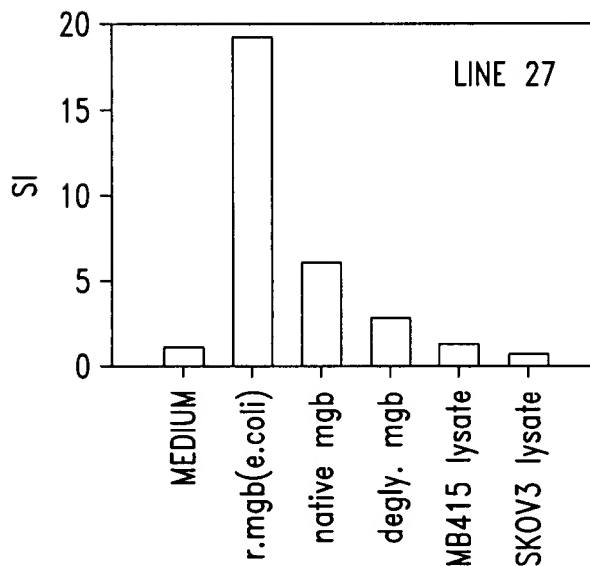
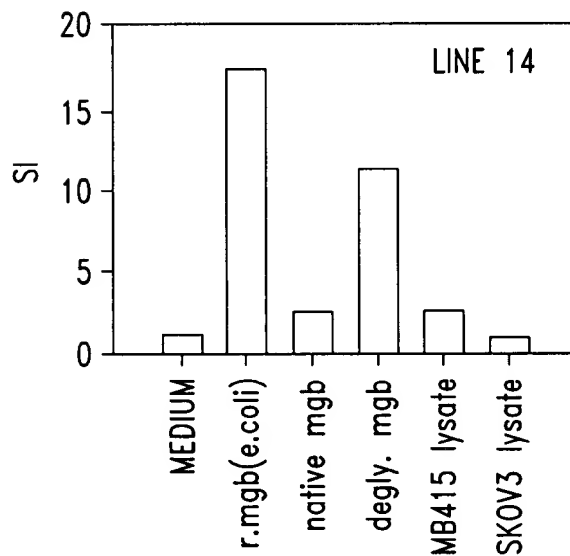
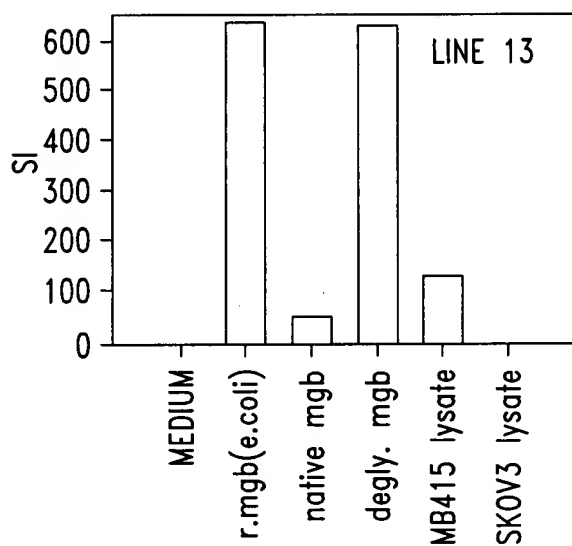


Fig. 19

| | | |
|-----------|-----------|----------|
| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

FIG. 20

H₃N-Met His tag 6aa Ral12 (short) 30aa HindIII 2aa Human mammaglobin (full length) 93aa -C00-

Fig. 20

| | | |
|-----------|-----------|----------|
| APPROVED | G.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

Ra12(s)MammFL pCRX1 Expression Screen

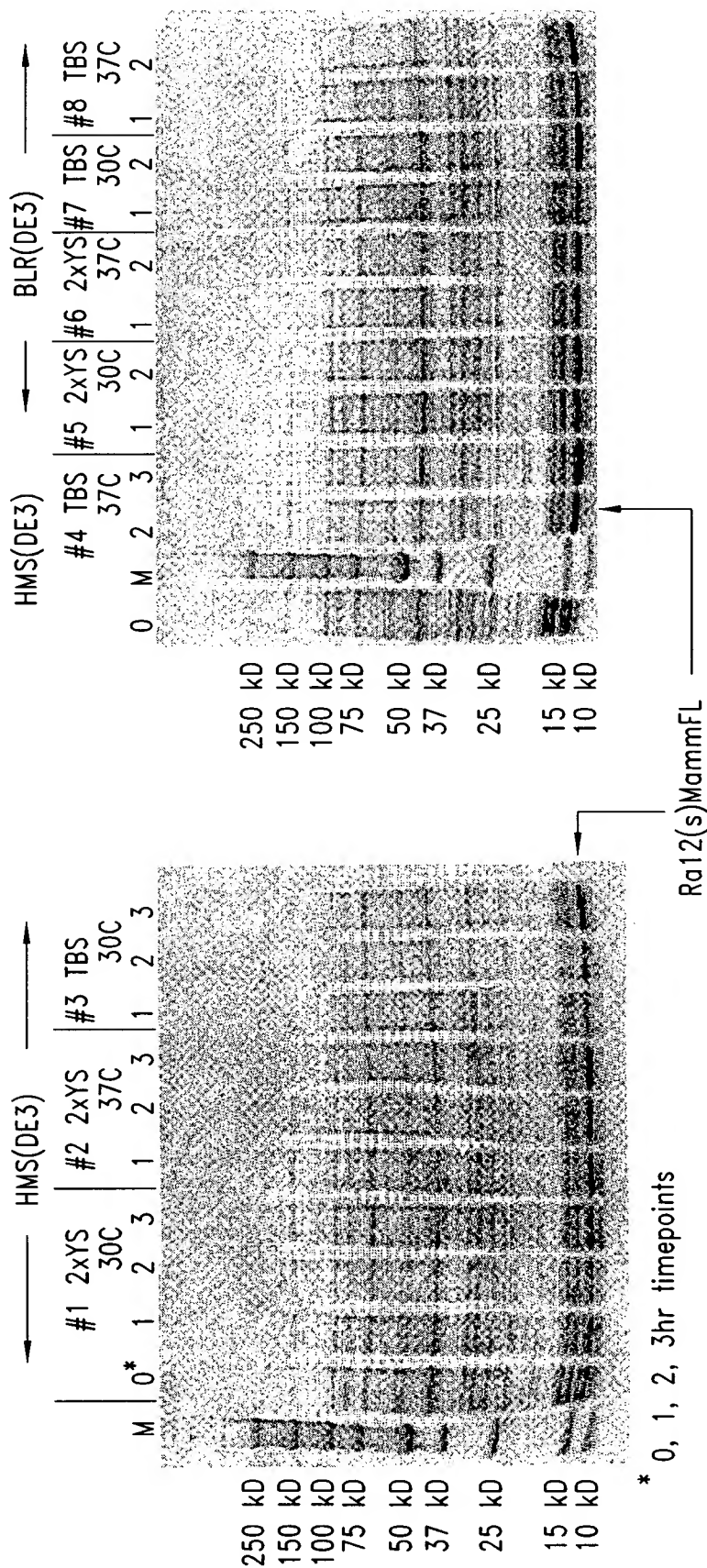


Fig. 21